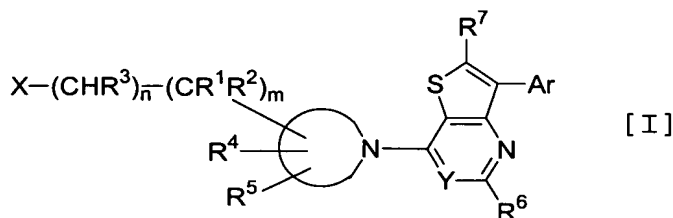


AMENDMENTS TO THE CLAIMS

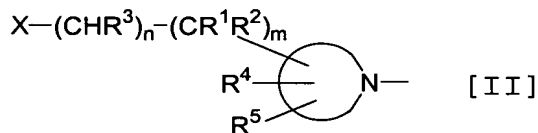
This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (original): A thienopyrimidine or thienopyridine derivative substituted with a cyclic amino group represented by the following formula [I]:



(wherein the cyclic amino group is represented by the following formula [II]):



in which the cyclic amino group is a 3- to 8-membered saturated cyclic amine or a 3- to 8-membered saturated cyclic amine bridged with C₁₋₅alkylene or C₁₋₄alkylene-O-C₁₋₄alkylene between any different two carbon atoms of the cyclic amine, which cyclic amine is substituted

with a group represented by $-(CR^1R^2)_m-(CHR^3)_n-X$, R^4 and R^5 independently on the same or different carbon atoms of the cyclic amine;

X is cyano, hydroxy, $-CO_2R^8$ or $-CONR^9R^{10}$;

Y is N or CR^{11} ;

R^1 is hydrogen, hydroxy, C_{1-5} alkyl, C_{1-5} alkoxy- C_{1-5} alkyl or hydroxy- C_{1-5} alkyl;

R^2 is hydrogen or C_{1-5} alkyl;

R^3 is hydrogen, cyano, C_{1-5} alkyl, C_{1-5} alkoxy- C_{1-5} alkyl or hydroxy- C_{1-5} alkyl;

m is an integer selected from 0, 1, 2, 3, 4 and 5;

n is 0 or 1;

R^4 is hydrogen, hydroxy, hydroxy- C_{1-5} alkyl, cyano, cyano- C_{1-5} alkyl or C_{1-5} alkyl;

R^5 is hydrogen or C_{1-5} alkyl;

R^6 is hydrogen, C_{1-5} alkyl, C_{3-8} cycloalkyl, C_{3-8} cycloalkyl- C_{1-5} alkyl, hydroxy, C_{1-5} alkoxy, C_{3-8} cycloalkyloxy, halogen, C_{1-5} alkylthio or $-N(R^{12})R^{13}$;

R^7 is hydrogen, halogen, C_{1-5} alkyl, C_{3-8} cycloalkyl, C_{3-8} cycloalkyl- C_{1-5} alkyl, hydroxy, C_{1-5} alkoxy, C_{3-8} cycloalkyloxy, $-N(R^{14})R^{15}$, $-CO_2R^{16}$, $-CON(R^{17})R^{18}$, cyano, nitro, C_{1-5} alkylthio, trifluoromethyl or trifluoromethoxy;

Ar is aryl or heteroaryl which aryl or heteroaryl is unsubstituted or substituted with 1 or more substituents, which are the same or different, selected from the group consisting of halogen, C_{1-5} alkyl, C_{3-8} cycloalkyl, C_{2-5} alkenyl, C_{2-5} alkynyl, C_{1-5} alkoxy, C_{1-5} alkylthio, C_{1-5} alkylsulfinyl, C_{1-5} alkylsulfonyl, cyano, nitro, hydroxy, $-CO_2R^{19}$, $-C(=O)R^{20}$, $-CONR^{21}R^{22}$, -

$\text{OC}(=\text{O})\text{R}^{23}$, $-\text{NR}^{24}\text{CO}_2\text{R}^{25}$, $-\text{S}(=\text{O})_r\text{NR}^{26}\text{R}^{27}$, trifluoromethyl, trifluoromethoxy, difluoromethoxy, fluoromethoxy, methylenedioxy, ethylenedioxy and $-\text{N}(\text{R}^{28})\text{R}^{29}$;

R^8 is hydrogen, C_{1-10} alkyl, C_{3-8} cycloalkyl, C_{3-8} cycloalkyl- C_{1-5} alkyl, aryl or aryl- C_{1-5} alkyl;

R^9 and R^{10} are the same or different, and independently are hydrogen, C_{1-5} alkyl, C_{3-8} cycloalkyl, C_{3-8} cycloalkyl- C_{1-5} alkyl, aryl or aryl- C_{1-5} alkyl; or R^9 and R^{10} form a ring selected from saturated 3 to 8 membered ring with the attached nitrogen atom, wherein one of the carbon atoms of such saturated 3 to 8 membered ring is optionally replaced by an oxygen or sulfur atom or by N-Z wherein Z is hydrogen, benzyl or C_{1-5} alkyl;

R^{11} is hydrogen, halogen or C_{1-5} alkyl;

R^{12} , R^{13} , R^{14} and R^{15} are the same or different, and independently are hydrogen or C_{1-5} alkyl;

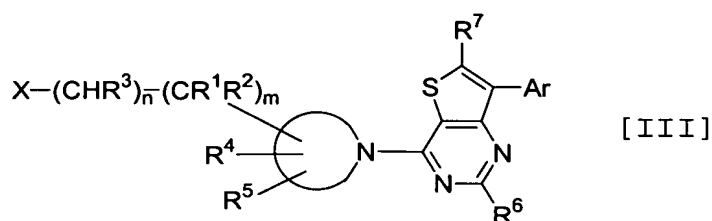
R^{16} , R^{19} and R^{25} are the same or different, and independently are hydrogen or C_{1-5} alkyl, C_{3-8} cycloalkyl, C_{3-8} cycloalkyl- C_{1-5} alkyl, aryl or aryl- C_{1-5} alkyl;

R^{17} , R^{18} , R^{20} , R^{21} , R^{22} , R^{23} , R^{24} , R^{26} , R^{27} , R^{28} and R^{29} are the same or different, and independently are hydrogen, C_{1-5} alkyl or C_{3-8} cycloalkyl;

r is 1 or 2)

, individual isomers thereof or racemic or non-racemic mixtures of isomers thereof, pharmaceutically acceptable prodrugs thereof or pharmaceutically acceptable salts and hydrates thereof.

2. (original): The thienopyrimidine derivative substituted with the cyclic amino group according to claim 1 represented by the following formula [III]:



(wherein X, m, n, the cyclic amino group, R¹, R², R³, R⁴, R⁵, R⁶, R⁷ and Ar are as defined in claim 1), individual isomers thereof or racemic or non-racemic mixtures of isomers thereof, or pharmaceutically acceptable salts and hydrates thereof.

3. (original): The thienopyrimidine derivative substituted with the cyclic amino group according to claim 2 represented by formula [III], wherein X is cyano; the cyclic amino group is a 4- to 7-membered saturated cyclic amine; n is 0; m is an integer selected from 0, 1, 2 and 3; R¹, R², R⁴ and R⁵ are hydrogen; R⁶ is C₁₋₅alkyl; R⁷ is hydrogen or C₁₋₅alkyl; and Ar is phenyl which phenyl is substituted with two or three substituents, which are the same or different, selected from the group consisting of halogen, C₁₋₃alkyl, C₁₋₃alkoxy, C₁₋₃alkylthio, trifluoromethyl, trifluoromethoxy and -N(R²⁸)R²⁹ (wherein R²⁸ and R²⁹ are the same or different, and independently are hydrogen or C₁₋₃alkyl), individual isomers thereof or racemic or non-racemic mixtures of isomers thereof, or pharmaceutically acceptable salts and hydrates thereof.

4. (original): The thienopyrimidine derivative substituted with the cyclic amino group according to claim 2 represented by formula [III], wherein X is cyano; the cyclic amino group is a 6-membered saturated cyclic amine; n is 0; m is 0 or 1; R^1 , R^2 , R^4 and R^5 are hydrogen; R^6 is C_{1-5} alkyl; R^7 is hydrogen or C_{1-5} alkyl; and Ar is phenyl which phenyl is substituted with two or three substituents, which are the same or different, selected from the group consisting of halogen and C_{1-3} alkyl, individual isomers thereof or racemic or non-racemic mixtures of isomers thereof, or pharmaceutically acceptable salts and hydrates thereof.

5. (original): The thienopyrimidine derivative substituted with the cyclic amino group according to claim 2 represented by formula [III], wherein X is hydroxy; the cyclic amino group is a 4- to 7-membered saturated cyclic amine; n is 0; m is an integer selected from 1, 2 and 3; R^1 , R^2 , R^4 and R^5 are hydrogen; R^6 is C_{1-5} alkyl; R^7 is hydrogen or C_{1-5} alkyl; and Ar is phenyl which phenyl is substituted with two or three substituents, which are the same or different, selected from the group consisting of halogen, C_{1-3} alkyl, C_{1-3} alkoxy, C_{1-3} alkylthio, trifluoromethyl, trifluoromethoxy and $-N(R^{28})R^{29}$ (wherein R^{28} and R^{29} are the same or different, and independently are hydrogen or C_{1-3} alkyl), individual isomers thereof or racemic or non-racemic mixtures of isomers thereof, or pharmaceutically acceptable salts and hydrates thereof.

6. (original): The thienopyrimidine derivative substituted with the cyclic amino group according to claim 2 represented by formula [III], wherein X is hydroxy; the cyclic amino group is a 6-membered saturated cyclic amine; n is 0; m is an integer selected from 1, 2 and 3; R^1 , R^2 , R^4 and

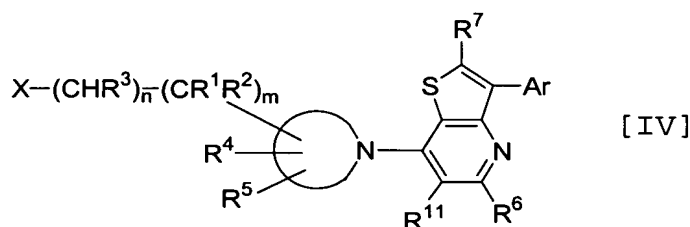
R^5 are hydrogen; R^6 is C_{1-5} alkyl; R^7 is hydrogen or C_{1-5} alkyl; and Ar is phenyl which phenyl is substituted with two or three substituents, which are the same or different, selected from the group consisting of halogen and C_{1-3} alkyl, individual isomers thereof or racemic or non-racemic mixtures of isomers thereof, or pharmaceutically acceptable salts and hydrates thereof.

7. (original): The thienopyrimidine derivative substituted with the cyclic amino group according to claim 2 represented by formula [III], wherein X is $-\text{CO}_2\text{R}^8$ or $-\text{CONR}^9\text{R}^{10}$; the cyclic amino group is a 4- to 7-membered saturated cyclic amine; n is 0; m is an integer selected from 0, 1, 2 and 3; R^1 , R^2 , R^4 and R^5 are hydrogen; R^6 is C_{1-5} alkyl; R^7 is hydrogen or C_{1-5} alkyl; R^8 is hydrogen or C_{1-10} alkyl; R^9 and R^{10} are the same or different, and independently are hydrogen or C_{1-5} alkyl; and Ar is phenyl which phenyl is substituted with two or three substituents, which are the same or different, selected from the group consisting of halogen, C_{1-3} alkyl, C_{1-3} alkoxy, C_{1-3} alkylthio, trifluoromethyl, trifluoromethoxy and $-\text{N}(\text{R}^{28})\text{R}^{29}$ (wherein R^{28} and R^{29} are the same or different, and independently are hydrogen or C_{1-3} alkyl), individual isomers thereof or racemic or non-racemic mixtures of isomers thereof, or pharmaceutically acceptable salts and hydrates thereof.

8. (original): The thienopyrimidine derivative substituted with the cyclic amino group according to claim 2 represented by formula [III], wherein X is $-\text{CO}_2\text{R}^8$ or $-\text{CONR}^9\text{R}^{10}$; the cyclic amino group is a 6-membered saturated cyclic amine; n is 0; m is an integer selected from 0, 1, 2 and 3; R^1 , R^2 , R^4 and R^5 are hydrogen; R^6 is C_{1-5} alkyl; R^7 is hydrogen or C_{1-5} alkyl; R^8 is hydrogen or C_{1-}

$_{10}$ alkyl; R^9 and R^{10} are the same or different, and independently are hydrogen or C_{1-5} alkyl; and Ar is phenyl which phenyl is substituted with two or three substituents, which are the same or different, selected from the group consisting of halogen and C_{1-3} alkyl, individual isomers thereof or racemic or non-racemic mixtures of isomers thereof, or pharmaceutically acceptable salts and hydrates thereof.

9. (original): The thienopyridine derivative substituted with the cyclic amino group according to claim 1 represented by the following formula [IV]:



(wherein X, m, n, the cyclic amino group, R^1 , R^2 , R^3 , R^4 , R^5 , R^6 , R^7 , R^{11} and Ar are as defined in claim 1), individual isomers thereof or racemic or non-racemic mixtures of isomers thereof, or pharmaceutically acceptable salts and hydrates thereof.

10. (original): The thienopyridine derivative substituted with the cyclic amino group according to claim 9 represented by formula [IV], wherein X is cyano; the cyclic amino group is a 4- to 7-membered saturated cyclic amine; n is 0; m is an integer selected from 1, 2 and 3; R^1 , R^2 , R^4 and R^5 are hydrogen; R^6 is C_{1-5} alkyl; R^7 is hydrogen or C_{1-5} alkyl; R^{11} is hydrogen or C_{1-5} alkyl; and Ar

is phenyl which phenyl is substituted with two or three substituents, which are the same or different, selected from the group consisting of halogen, C₁₋₃alkyl, C₁₋₃alkoxy, C₁₋₃alkylthio, trifluoromethyl, trifluoromethoxy and -N(R²⁸)R²⁹ (wherein R²⁸ and R²⁹ are the same or different, and independently are hydrogen or C₁₋₃alkyl), individual isomers thereof or racemic or non-racemic mixtures of isomers thereof, or pharmaceutically acceptable salts and hydrates thereof.

11. (original): The thienopyridine derivative substituted with the cyclic amino group according to claim 9 represented by formula [IV], wherein X is cyano; the cyclic amino group is a 6-membered saturated cyclic amine; n is 0; m is 0 or 1; R¹, R², R⁴ and R⁵ are hydrogen; R⁶ is C₁₋₅alkyl; R⁷ is hydrogen or C₁₋₅alkyl; R¹¹ is hydrogen; and Ar is phenyl which phenyl is substituted with two or three substituents, which are the same or different, selected from the group consisting of halogen and C₁₋₃alkyl, individual isomers thereof or racemic or non-racemic mixtures of isomers thereof, or pharmaceutically acceptable salts and hydrates thereof.

12. (original): The thienopyridine derivative substituted with the cyclic amino group according to claim 9 represented by formula [IV], wherein X is hydroxy; the cyclic amino group is a 4- to 7-membered saturated cyclic amine; n is 0; m is an integer selected from 1, 2 and 3; R¹, R², R⁴ and R⁵ are hydrogen; R⁶ is C₁₋₅alkyl; R⁷ is hydrogen or C₁₋₅alkyl; R¹¹ is hydrogen or C₁₋₅alkyl; and Ar is phenyl which phenyl is substituted with two or three substituents, which are the same or different, selected from the group consisting of halogen, C₁₋₃alkyl, C₁₋₃alkoxy, C₁₋₃alkylthio, trifluoromethyl, trifluoromethoxy and -N(R²⁸)R²⁹ (wherein R²⁸ and R²⁹ are the same or different,

and independently are hydrogen or C₁₋₃alkyl), individual isomers thereof or racemic or non-racemic mixtures of isomers thereof, or pharmaceutically acceptable salts and hydrates thereof.

13. (original): The thienopyridine derivative substituted with the cyclic amino group according to claim 9 represented by formula [IV], wherein X is hydroxy; the cyclic amino group is a 6-membered saturated cyclic amine; n is 0; m is an integer selected from 1, 2 and 3; R¹, R², R⁴ and R⁵ are hydrogen; R⁶ is C₁₋₅alkyl; R⁷ is hydrogen or C₁₋₅alkyl; R¹¹ is hydrogen; and Ar is phenyl which phenyl is substituted with two or three substituents, which are the same or different, selected from the group consisting of halogen and C₁₋₃alkyl, individual isomers thereof or racemic or non-racemic mixtures of isomers thereof, or pharmaceutically acceptable salts and hydrates thereof.

14. (original): The thienopyridine derivative substituted with the cyclic amino group according to claim 9 represented by formula [IV], wherein X is -CO₂R⁸ or -CONR⁹R¹⁰; the cyclic amino group is a 4- to 7-membered saturated cyclic amine; n is 0; m is an integer selected from 0, 1, 2 and 3; R¹, R², R⁴ and R⁵ are hydrogen; R⁶ is C₁₋₅alkyl; R⁷ is hydrogen or C₁₋₅alkyl; R⁸ is hydrogen or C₁₋₁₀alkyl; R⁹ and R¹⁰ are the same or different, and independently are hydrogen or C₁₋₅alkyl; R¹¹ is hydrogen or C₁₋₅alkyl; and Ar is phenyl which phenyl is substituted with two or three substituents, which are the same or different, selected from the group consisting of halogen, C₁₋₃alkyl, C₁₋₃alkoxy, C₁₋₃alkylthio, trifluoromethyl, trifluoromethoxy and -N(R²⁸)R²⁹ (wherein R²⁸ and R²⁹ are the same or different, and independently are hydrogen or C₁₋₃alkyl), individual

isomers thereof or racemic or non-racemic mixtures of isomers thereof, or pharmaceutically acceptable salts and hydrates thereof.

15. (original): The thienopyridine derivative substituted with the cyclic amino group according to claim 2 represented by formula [IV], wherein X is $-\text{CO}_2\text{R}^8$ or $-\text{CONR}^9\text{R}^{10}$; the cyclic amino group is a 6-membered saturated cyclic amine; n is 0; m is an integer selected from 0, 1, 2 and 3; R^1 , R^2 , R^4 and R^5 are hydrogen; R^6 is C_{1-5} alkyl; R^7 is hydrogen or C_{1-5} alkyl; R^8 is hydrogen or C_{1-10} alkyl; R^9 and R^{10} are the same or different, and independently are hydrogen or C_{1-5} alkyl; R^{11} is hydrogen; and Ar is phenyl which phenyl is substituted with two or three substituents, which are the same or different, selected from the group consisting of halogen and C_{1-3} alkyl, individual isomers thereof or racemic or non-racemic mixtures of isomers thereof, or pharmaceutically acceptable salts and hydrates thereof.

16. (original): Compounds represented by formula [I] according to claim 1, which compounds are selected from the group consisting of

{1-[7-(4-Bromo-2,6-dimethyl-phenyl)-2-methyl-thieno[3,2-d]pyrimidin-4-yl]-piperidin-4-yl}-methanol,

{1-[7-(4-bromo-2,6-dimethyl-phenyl)-2,6-dimethyl-thieno[3,2-d]pyrimidin-4-yl]-piperidin-4-yl}-methanol,

2-{1-[7-(4-bromo-2,6-dimethyl-phenyl)-2,6-dimethyl-thieno[3,2-d]pyrimidin-4-yl]-piperidin-4-yl}-ethanol,

{1-[7-(4-bromo-2,6-dimethyl-phenyl)-2,6-dimethyl-thieno[3,2-d]pyrimidin-4-yl]-
piperidin-4-yl}-acetonitrile,

{1-[3-(2,4-dichloro-phenyl)-5-methyl-thieno[3,2-b]pyridin-7-yl]-piperidin-4-yl}-
methanol,

{1-[5-methyl-3-(2,4,6-trimethyl-phenyl)-thieno[3,2-b]pyridin-7-yl]-piperidin-4-
yl}-methanol,

{1-[3-(4-bromo-2,6-dimethyl-phenyl)-5-methyl-thieno[3,2-b]pyridin-7-yl]-
piperidin-4-yl}-methanol,

{1-[3-(4-bromo-2,6-dimethyl-phenyl)-2,5-dimethyl-thieno[3,2-b]pyridin-7-yl]-
piperidin-4-yl}-methanol,

{1-[3-(2,4-dibromo-phenyl)-5-methyl-thieno[3,2-b]pyridin-7-yl]-piperidin-4-yl}-
methanol,

{1-[5-methyl-3-(2,4,6-trichloro-phenyl)-thieno[3,2-b]pyridin-7-yl]-piperidin-4-
yl}-methanol,

2-{1-[3-(4-bromo-2,6-dimethyl-phenyl)-5-methyl-thieno[3,2-b]pyridin-7-yl]-
piperidin-4-yl}-ethanol,

2-{1-[3-(4-bromo-2,6-dimethyl-phenyl)-2,5-dimethyl-thieno[3,2-b]pyridin-7-yl]-
piperidin-4-yl}-ethanol,

2-{1-[3-(2,4-dibromo-phenyl)-5-methyl-thieno[3,2-b]pyridin-7-yl]-piperidin-4-
yl}-ethanol,

2-{1-[5-methyl-3-(2,4,6-trichloro-phenyl)-thieno[3,2-b]pyridin-7-yl]-piperidin-4-yl}-ethanol,

1-[5-methyl-3-(2,4,6-trimethyl-phenyl)-thieno[3,2-b]pyridin-7-yl]-piperidine-3-carbonitrile,

{1-[3-(4-bromo-2,6-dimethyl-phenyl)-5-methyl-thieno[3,2-b]pyridin-7-yl]-piperidin-4-yl}-acetonitrile,

{1-[3-(4-bromo-2,6-dimethyl-phenyl)-2,5-dimethyl-thieno[3,2-b]pyridin-7-yl]-piperidin-4-yl}-acetonitrile,

{1-[3-(2,4-dibromo-phenyl)-5-methyl-thieno[3,2-b]pyridin-7-yl]-piperidin-4-yl}-acetonitrile

and {1-[5-methyl-3-(2,4,6-trichloro-phenyl)-thieno[3,2-b]pyridin-7-yl]-piperidin-4-yl}-acetonitrile.

17. (currently amended): An antagonist for CRF receptors, comprising a thienopyrimidine or thienopyridine derivative substituted with a cyclic amino group, a pharmaceutically acceptable salt thereof or its hydrate according to claim 1 ~~any one of claims 1 to 16~~, as an active ingredient.

18. (currently amended): Use of a thienopyrimidine or thienopyridine derivative substituted with a cyclic amino group, a pharmaceutically acceptable salt thereof or its hydrate according to claim

Preliminary Amendment
Appln. No.: National Stage of PCT/JP2005/000318

~~any one of claim 1 to 16~~, for the manufacture of a therapeutic agent as an antagonist for CRF
receptors.